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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/927,295	08/10/2001	Scott E. Moore	500199.02	7399
27076 75	27076 7590 10/29/2003		EXAMINER	
DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT SUITE 3400 1420 FIFTH AVENUE SEATTLE, WA 98101			OJINI, EZIAMARA ANTHONY	
			ART UNIT	PAPER NUMBER
			3723	1
			DATE MAILED: 10/29/2003	Q_{\perp}

Please find below and/or attached an Office communication concerning this application or proceeding.

	_	$oldsymbol{arphi}_{i}$				
	Application No.	Applicant(s)				
	09/927,295	MOORE, SCOTT E.				
Office Action Summary	Examiner	Art Unit				
	Anthony Ojini	3723				
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet with t	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply liptople of the statutory minimum of thirty (30 d will apply and will expire SIX (6) MONTHS te. cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 10	August 2001 .					
<u> </u>	his action is non-final.					
3) Since this application is in condition for allow	vance except for formal matters	s, prosecution as to the merits is				
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D. 1	1, 453 O.G. 213.				
4)⊠ Claim(s) <u>35-43</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdr	awn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>35-43</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☑ The drawing(s) filed on 10 August 2001 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
· · · · · · · · · · · · · · · · · · ·	an priority under 35 U.S.C. & 11	(9(a)-(d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
. The same is the same of the						
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the pri application from the International B * See the attached detailed Office action for a list	ority documents have been rec sureau (PCT Rule 17.2(a)).	eived in this National Stage				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language p	rovisional application has been	received.				
15) Acknowledgment is made of a claim for dome.	suc priority under 35 0.5.0. 99	120 attu/01 121.				
Attachment(s) 1) Notice of Poteropees Cited (PTO-892)	. 4) T Interview Sum	mary (PTO-413) Paper No(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Infor	mal Patent Application (PTO-152)				

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DETAILED ACTION

Applicant's cancellation of claims 1-34 and 44-76 in Paper No. 3 is acknowledged.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 35,38,39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohno et al. (5,727,989) in view of Laurent (5,915,860).

With respect to claim 35, Ohno et al. disclose a polishing pad cartridge in an apparatus having a supply and take-up spindles spaced apart by first distance, the polishing pad cartridge comprising: a supply roll (33) and take-up roll (34) rotatably coupled to a frame (see figs 3,7); and an elongated polishing pad (2) having a first end attached to the supply roll and a second end attached to the take-up roll (see fig. 3).

Ohno et al. fail to disclose a cartridge frame having a first attachment portion and second attachment portion spaced apart from the first attachment portion by a second distance wherein the second distance being approximately equal to the first distance between the supply spindle and the take-up spindle.

Laur nt discloses a cartridge frame having a first attachment portion and second attachment portion spaced apart from the first attachment portion by a second distance

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wherein the second distance being approximately equal to the first distance between the supply spindle and the take-up spindle (see figs. 8,9).

It would have been obvious to one having ordinary skill in the art the time the invention was made to provide apparatus of Ohno et al. with a cartridge frame having a first attachment portion and second attachment portion spaced apart from the first attachment portion by a second distance wherein the second distance being approximately equal to the first distance between the supply spindle and the take-up spindle in view of Laurent so as to keep the two rollers in position and ensure the polishing tape is under tension.

With respect to claim 38, Ohno et al. fail to disclose the polishing tape includes polyurethane.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide apparatus of Ohno et al. with polishing tape that includes polyurethane, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416. See also *Ballas Liquidating Co. v. Allied industries of Kansas, Inc.* (DC Kans) 205 USPQ 331.

With respect to claim 39, Ohno et al. fail to disclose wherein the supply roll includes an axle having a portion extending beyond an edge of the polishing pad and the first attachment portion of the frame includes an opening sized to rotatably receive the portion of the axle.

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Laurent discloses wherein the supply roll includes an axle having a portion extending beyond an edge of the polishing pad and the first attachment portion of the frame includes an opening sized to rotatably receive the portion of the axle (see fig. 8). It would have been obvious to one having ordinary skill in the art the time the invention was made to provide apparatus of Ohno et al. with supply roll that includes an axle having a portion extending beyond an edge of the polishing pad and the first attachment portion of the frame includes an opening sized to rotatably receive the portion of the axle in view of Laurent so as to keep the two rollers in position and ensure the polishing tape is under tension.

Claims 36,37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohno et al. (5,727,989) in view of Laurent (5,915,860) as applied to claim 35 above, and further in view of Tietz (6,135,859).

With respect to claim 36, Ohno et al. fail to disclose the polishing pad is a fixed abrasive polishing pad that includes a suspension medium and plurality of abrasive elements fixedly distributed in the suspension medium.

Tietz discloses a fixed abrasive polishing pad (110) that includes a suspension medium and plurality of abrasive elements fixedly distributed in the suspension medium (see col. 6, lines 1-8 & fig. 4).

It would have been obvious to one having ordinary skill in the art the time the invention was made to provide apparatus of Ohno et al. with a fixed abrasive polishing pad that includes a suspension medium and plurality of abrasive elements fixedly distributed in

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the suspension medium in view of Tietz so as to polish more substrates without replacing the pad.

With respect to claim 37, Ohno et al. disclose wherein the spindles have projections extending away therefrom and the supply roll (33) and take-up roll (34) having aperture for receiving the spindles (see fig. 7).

Claims 40 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohno et al. (5,727,989) in view of Kondo (5,865,545).

With respect to claim 40, Ohno et al. disclose a polishing pad cartridge in an apparatus having a supply and take-up spindles spaced apart by first distance, the polishing pad cartridge comprising: a supply roll (33) and take-up roll (34) having aperture for receiving the spindles (see fig7); and an elongated polishing pad (2) having a first end attached to the supply roll and a second end attached to the take-up roll (see fig. 3), the elongated polishing pad (2) being at least partially coiled on the supply roll (see fig. 3).

Ohno et al. fail to disclose the take-up roll is being movable relative to the supply roll to separate the first and second apertures by a second distance approximately equal to the first distance while the polishing pad is attached to the supply roll and take-up roll.

Kondo discloses a cartridge device having a supply roll that is being movable relative to the take-up roll (see figs. 3-5) but fail to show a take-up roll that being movable relative to the supply roll.

It would have been obvious to one having ordinary skill in the art the time the invention was made to provide apparatus of Ohno et al. with a cartridge device having a supply

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roll that is being movable relative to the take-up roll in view of Kondo so as to replace worn out polishing tape with a new one.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide apparatus of Ohno et al. a cartridge device having a take-up roll that is being movable relative to the supply roll, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

With respect to claim 43, please refer to claim 38 above.

Claims 41,42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohno et al. (5,727,989) in view of Kondo (5,865,545) as applied to claim 40 above, and further in view of Tietz (6,135,859).

With respect to claim 41, please refer to claim 36 above.

With respect to claim 42, please refer to claim 37 above.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shiraishi, Shimoyama et al., Loidi, Nelson et al., Ishida, Li et al., and Coote disclose cartridge device respectively.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Ojini whose telephone number is 703 305 3768. The examiner can normally be reached on 7.30 to 5.00 Tuesday-Friday with every other Monday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 703 308 2687. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 1148.

AO October 24, 2003